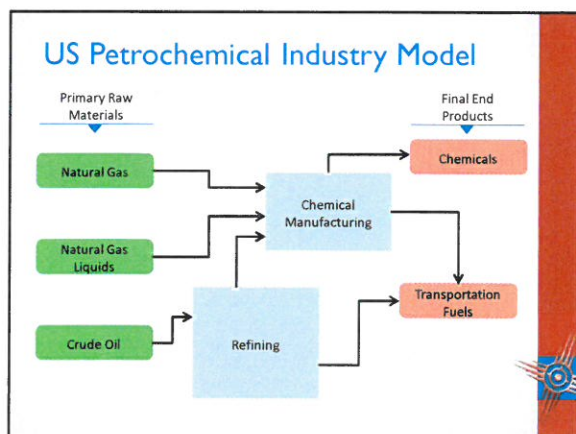


FOUR CORNERS
ECONOMIC DEVELOPMENT
Making San Juan County a place people want to be.


Petrochemical Production
The part they play in our future.

The Landscape:


- Shale plays in the natural gas industry create low cost petrochemical feedstock.
- This creates a demand for downstream facilities or “crackers.”
- Historically these crackers have been on the Gulf Coast.
- Technology advancements create a demand for “closer to the gas deposits” cracker locations.




What do they produce?



PROPYLENE
AUTOMOTIVE PARTS, POLYMER FILMS, FIBERS, THERMOPLASTICS, RUBBER, GLASS, STAINLESS STEEL, AND OTHERS. (POLYPROPYLENE IS USED IN MANY TYPES OF PLASTIC BOTTLES AND CONTAINERS.)




ETHYLENE
POLYETHYLENE FILMS, PLASTICS, FIBERS, THERMOPLASTICS, RUBBER, GLASS, STAINLESS STEEL, AND OTHERS. (POLYETHYLENE IS USED IN MANY TYPES OF PLASTIC BOTTLES AND CONTAINERS.)




BUTADIENE
AUTOMOTIVE TIRE PARTS, RUBBER, GLASS, STAINLESS STEEL, AND OTHERS. (POLYBUTADIENE IS USED IN MANY TYPES OF PLASTIC BOTTLES AND CONTAINERS.)


PETROCHEMICALS ARE ALL AROUND US. HERE ARE A FEW WAYS WE USE THEM EVERY DAY.



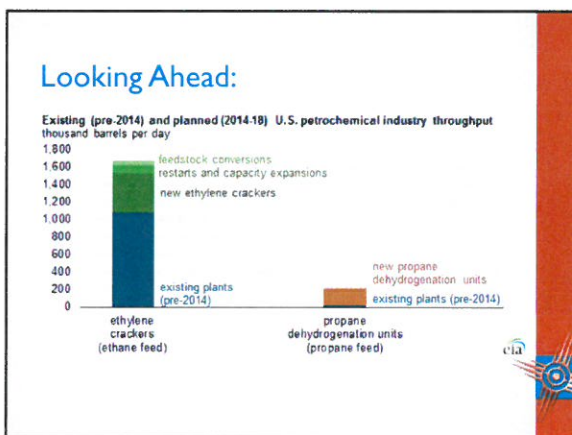
BENZENE
POLYMER FILMS, PLASTICS, FIBERS, THERMOPLASTICS, RUBBER, GLASS, STAINLESS STEEL, AND OTHERS. (POLYBENZENE IS USED IN MANY TYPES OF PLASTIC BOTTLES AND CONTAINERS.)



TOLUENE
POLYMER FILMS, PLASTICS, FIBERS, THERMOPLASTICS, RUBBER, GLASS, STAINLESS STEEL, AND OTHERS. (POLYTOLUENE IS USED IN MANY TYPES OF PLASTIC BOTTLES AND CONTAINERS.)



XYLENE
POLYMER FILMS, PLASTICS, FIBERS, THERMOPLASTICS, RUBBER, GLASS, STAINLESS STEEL, AND OTHERS. (POLYXYLENE IS USED IN MANY TYPES OF PLASTIC BOTTLES AND CONTAINERS.)



Petrochemical Company Needs:

- ✓ Access to low cost supply
- ✓ Developed export capabilities
- Infrastructure (i.e. pipelines) and storage
- ✓ Continued innovation and customer need understanding

Similar example:

- The retrofits at the San Juan Generating Station require urea.
- Urea is produced from natural gas.
- Technology advances have allowed for modular plants.
- Opportunity for it to be locally-produced
 - Currently in site selection and customer contract negotiations.
- More low cost urea for agriculture.



The Importance:

- 214,000 jobs nationally in petrochemical business.
- Manufacturers (plastics, consumer products, etc.) locate close to feedstock.
- New Four Corners "crackers" will yield jobs and new manufacturing having exponential effect.
- Ties the region and state together.





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